KRAFT
PAINTS

DRIVEN BY INNOVATION

Powderfine Multi

CE EN 998-1 GP CS-IV Wc1

CE EN 1504-3

Multi-purpose (3in1), repairing putty, in powder form

» **Unique innovative combination of repairing – filling – smoothing.**

» **Can be sanded**

» **Fine-grained finish, equal to common troweling putties**

» **Thixotropic**

» **Non-shrinking**

» **Non-corrosive (free of chlorine ions and lime)**

» **Excellent adhesion to substrate**

» **Easy of application**

» **Resistant to temperature changes**

» **Can be primed and painted, directly**

» **Indoor and outdoor usage**

Powderfine Multi is a multi-purpose (3in1), white, repairing putty, in powder form. Its advanced composition includes cement, modified resins, state-of-the-art additives, as well as active inorganic binders which give the product the unique innovative combination of 3 capabilities: **repairing – filling – smoothing**, with simultaneous highest protection against shrinkage cracking formation, excellent workability, great adhesion and sanding properties. Its specially designed particle size curve offers a final aesthetic finishing texture, equal to common troweling putties, achieving an instantly smooth surface, without imperfections and cracks.

It is classified as a **GP CS-IV Wc1** mortar according to **EN 998-1** and as concrete repairing mortar **PCC R1** according to **EN 1504-3.**

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FIELD OF APPLICATION

Powderfine Multi is suitable for **repairing** coatings, renders, missing endings on corners, holes, wide cracks on walls and ceilings. It is also suitable for **putting** and **smoothing** surfaces on walls and ceilings and due to its **high thixotropy** allows application in thicknesses of 2-20mm (locally 40mm). In this way, it is an ideal smoothing technical solution in cases where greater thicknesses are required, achieving reduction of multiple successive layers of different materials. When mixed with water, a creamy paste is created which spreads with great ease, evenly, without being dehydrated, giving a smooth and extremely durable surface result formation. It can be sanded in a short time (after 4 hours - for small widths, after 24 hours - for larger widths). It is highly resistant to moisture, frost and temperature changes. It can be primed and painted, directly. Suitable for indoor and outdoor usage. In cases where an ultra-fine grained final aesthetic result is required, it is recommended to apply an additional final layer of ultra-fine grained putty in powder form, **Powderfine Professional** or **Exterior**, for indoor or exterior outdoor applications respectively.

TECHNICAL DATA
(Measurement conditions 20°C and 65% Relative humidity)

Color	**White**
Water ratio	**8,5l** water in **25kg** Powderfine Multi
Maximum grain size	**200μm**
Bulk density of dry mortar	**1,33±0,05kg/l**
Bulk density of fresh mortar	**1,85±0,05kg/l**
Application temperature	From **+5°C** to **+35°C**
Pot life	**2 hours** and **30 min**
Consumption	**1,2kg/m²/mm**

PRODUCT PERFORMANCES

Compressive strength EN 1015-11/EN 12190	$\geq$ 10,5 MPa
Capillary water absorption (c), EN 1015-18	$c \leq 0,30kg/(m^2.min^{0,5})$
Adhesive strength EN 1015-12/EN 1542	$\geq$ 0,85 N/mm² (Fracture pattern: B)
Water vapor permeability of hardened mortar (μ) EN 1015-19	5/20
Thermal conductivity (λ_{10}, dry), EN 1745	0,33 W/m·K (P = 50%)
Reaction to fire EN13501-1	A1

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DIRECTIONS FOR USE:

1. **SUBSTRATE - PREPARATION:** To ensure good adhesion substrate should be sound, clean, free of dust, oil, lime, tar and loose elements. Light soaking with water before use. On substrates with high absorbency (eg brick, aerated concrete, old plasters, etc.) it is recommended to apply **Eco Dur Aqua** by **KRAFT PAINTS** diluted 1:1 to 1:2 with water. Caution! The primer must properly be diluted in order to be completely absorbed and avoid film formation to the substrate surface.

2. **MIXING:** In a clean container add pure water and gradually empty the content of package (8.5 - 9 lt water per 25 Kg or 1.7 - 1.8 lt water per 5Kg **Powderfine Multi)**. Mixing must be done carefully so that no amount of product remains on the walls or bottom of the container. The product is ready for use when the mixture becomes homogeneous without lumps. The homogenized mixture should be stirred at regular intervals so that no additional water is required.

3. **APPLICATION: Powderfine Multi** can be applied in a thickness of 2-20mm per layer (locally up to 40mm), using a flat metal spatula

or trowel and ensuring full coverage of the application substrate. Any subsequent layer can be applied, by the «fresh on fresh» method, in 2-8 hours (depending on environmental conditions) after the previous layer. Alternatively, any subsequent layer can be applied when the previous one has sufficiently dried, in 4-24 hours (depending on environmental conditions), after light soaking with water. Once **Powderfine Multi** is sufficiently dry (after 4 hours - for small widths, after 24 hours - for larger widths, depending on environmental conditions), finishing of the final surface is achieved by using sandpaper. Then, the surface can be primed and painted or coated with decorative wallpaper. On "demanding" surfaces and as well as on surfaces with special problems of cracking or moisture, it is necessary to add **KRAFT PAINTS** mortar reinforcement resin in a ratio of 1:2 - 1:3 to the mixing water, depending on each application.

4. **CLEANING OF TOOLS:** Tools should be cleaned immediately after application with plenty of water while the material is still fresh or otherwise mechanically. Remove as much material as possible from tools before cleaning.

IMPORTANT NOTES:

Time between successive layers: 2-8 hours, depending on environmental conditions. Sanding time: after 4 hours - for small widths, after 24 hours - for larger widths, depending on environmental conditions. Do not apply at temperatures below +5°C and above +35°C as well as at relative humidity above 65%. It is recommended to protect

the surfaces against strong wind currents and direct sunlight. In periods of high temperatures (warm months) light wetting of the final surface is recommended for 24 - 48 hours after application. The final surface is prepared with the appropriate primer before painting or coating with wallpaper. Do not add cement, plaster or aggregates to the mixture.

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CONSUMPTION

Consumption is about 1,2 Kg/m²/mm. It depends on the type of substrate, the method, the tools and the application conditions.

CE 2878	Druckfarben Hellas S.A. Megaridos Ave., Kallistiri area, GR-19300 Aspropyrgos, Greece
**22**   DoP No 05.05   **Powderfine Multi**   **EN 998-1:2016**   General purpose rendering mortar for use on external walls, ceilings and columns (**GP CS IV**)
Reaction to fire	Pending
Water Absorption	W_c1
Water Vapour Permeability (μ)	5/20
Adhesion	0.80 (FP:B)
Thermal Conductivity (λ)	0.33 W/m· K (Tab. Value, P=50%)
Durability	NPD
Dangerous substances	See SDS

CE 2878	Druckfarben Hellas S.A. Megaridos Ave., Kallistiri area, GR-19300 Aspropyrgos, Greece
**22**   DoP No 05.15   **Powderfine Multi**   **EN 1504-3**   Concrete repair product gor non-structural repair PCC mortar (based on hydraulic cement), **Class R1**
Reaction to fire	Pending
Compressive strength	Class R1
Chloride ion content	≤ 0.05%
Adhesive bond	≥ 0.8 MPa
Thermal compatibility (Part 1, Freeze-Thaw)	Requirements Fulfilled
Dangerous substances	Comply with 5.4

PACKAGING – SHADES

The product is packaged in 25Kg and 5Kg valve paper bags in White shade.

STORAGE

Stored on wooden palettes and in a dry environment with temperature above 5ºC for 12 months from the production date.

ΟΔΗΓΙΕΣ ΥΓΙΕΙΝΗΣ, ΑΣΦΑΛΕΙΑΣ ΚΑΙ ΠΡΟΣΤΑΣΙΑΣ ΤΟΥ ΠΕΡΙΒΑΛΛΟΝΤΟΣ

Carefully read and follow all cautions and warnings on product label. For further information refer to the Material Safety Data Sheet of this product.

Poison Centre Telephone:

+30 210 7793 777

ISO 9001 TÜV NORD TÜV HELLAS SYSTEM CERTIFICATION ISO 14001 TÜV NORD TÜV HELLAS SYSTEM CERTIFICATION ISO 45001 TÜV NORD TÜV HELLAS SYSTEM CERTIFICATION ISO 50001 TÜV NORD TÜV HELLAS SYSTEM CERTIFICATION

DRUCKFARBEN HELLAS S.A.
ASPROPYRGOS 19 300, ATTICA - GREECE | TEL.: +30 210 55 19 500 - FAX: +30 210 55 19 501
www.druckfarben.com | www.kraftpaints.com

Toll-free number
800 111 7700 Monday - Friday, 8.00 am – 04.00 pm
e-mail: paints.orders@druckfarben.gr